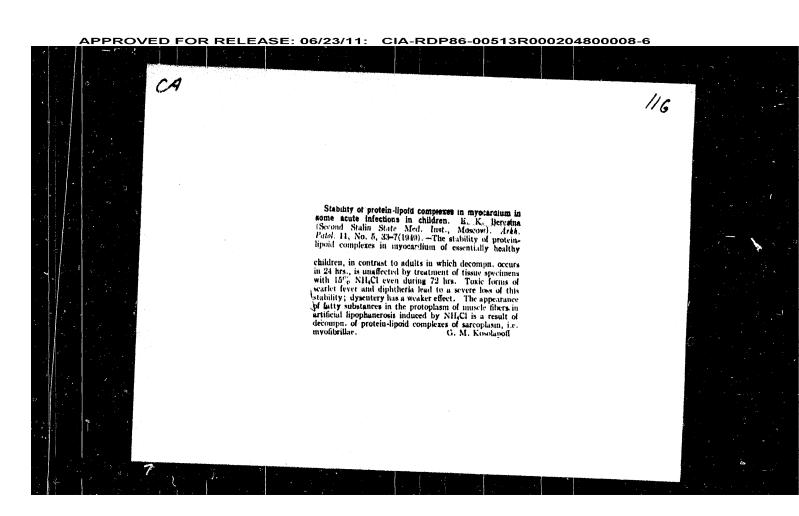
YERMOL'YEVA, Z.V.; VALEDINSKAYA, L.K.; LAXAREVA, Ye.N.; AVTSYN, A.P.; AZLETSKAYA, A.Ye.; BEREZINA, Ye.K.; RAVICH, B.V.; RYKALEVA, A.M.; GUSLOVA, A.M. Experimental study of protein-free preparations from the liver and the thymus. Trudy AMN SSSR 22:14-21 152. (MLRA 6:6) (Antibiotics) (Tuberculosis)



EEREZINA, Ye. (Khar'kov)

Blood sausage and pate from whale meat. Mias.ind.SSSR 35 no.1:36
164. (MIRA 17:4)

APPROVED FOR RELEASE: 06/23/11: CIA-EDPR6-00513E00204800008-6

**RATROZOVA, 5., kandidat khimicheekikh nauk.; ZHURAYSKATA, N., kandidat khimicheekikh nauk.; ERREZINA, Ve., inchener.; SHARANOVA, V., inchener.

Iodometric method for determining bread content in meat balls, Mias. ind. SSSR no.2:18-19 '57. (MIRA 10:5)

(**Packing house products**) (Iodometry)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

ACCESSION NR: AT4002223

These formulas were tested on the Taman Peninsula and in the Shebalinskiy gas field. Results showed that this method may give more accurate density estimates than calculations based on empirical geological data. Orig. art. has: 2 figures, 1 table, and 5 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 26Dec63

ENCL: 00

SUB CODE: AS

NO REF SOV: 002

OTHER: 000

Cord 4/4

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

ACCESSION NR: AT4002223

$$\sigma = 7,365 - \frac{g_1^{11} - 2g_2^{11} + g_3^{11}}{0.0119(2h_2 - h_3 - h_1)}.$$

For parabollic gravity changes on the reference plane $g^0 = g_1^0 + a_1 x + a_2 x^2$,

$$\sigma = \frac{0.3086 \left(h_4 - 3h_3 + 3h_2 - h_4 \right) +}{0.0119 \left(h_4 - 3h_3 + 3h_2 - h_1 \right) +} \times \times \frac{+ g_4^{\text{H}} - 3g_3^{\text{H}} + 3g_4^{\text{H}} - g_4^{\text{H}}}{+ k \left(\Delta g_4^{\text{P}} - 3\Delta g_3^{\text{P}} + 3\Delta g_2^{\text{P}} - \Delta g_4^{\text{P}} \right)} \bullet$$

When there are no topographic corrections,

$$\sigma = 7,365 + \frac{s_{*}^{11} - 3s_{3}^{11} + 3s_{3}^{11} - s_{1}^{11}}{0.0419(h_{4} - 3h_{2} + 3h_{3} - h_{1})}.$$

Card 3/4

FACCESSION NR: AT4002223 $g_1'' = g_1^o + k \sigma \Delta g_1^p;$ $g_2'' = g_1^o + a \Delta x + 0.0419 (h_2 - h_1) - 0.3086 (h_2 - h_1) + k \sigma \Delta g_2^p;$

 $-0.3086 (h_{2} - h_{1}) + k \sigma \Delta g_{1}^{p};$ $g_{2}^{H} = g_{1}^{o} + 2\sigma \Delta x + 0.0419 (h_{2} - h_{1}) - 0.3086 (h_{2} - h_{1}) + k \sigma \Delta g_{2}^{p};$

where g_1^H , g_2^H , g_3^H are gravity readings at g_1^I ven points, $h_1 \dots h_3$ are absolute elevations at given points, $\Delta g_1^P \dots \Delta g_1^P$ are terrain corrections at given points, and k is the coefficient equal to the reciprocal of the assumed density value. Solving for σ_s

$$\sigma = \frac{0.3086 (2h_3 - h_3 - h_1) - g_1^{11} + 2g_2^{11} - g_3^{11}}{0.0410 (2h_3 - h_3 - h_1) + k(-\Delta g_1^2 + 2\Delta g_2^2 - \Delta g_3^2)}$$

When corrections for topography are small,

Card 2/4)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

ACCESSION NR: AT4002223

\$/2702/63/000/013/0081/0086

AUTHOR: Berezkin, V. M.

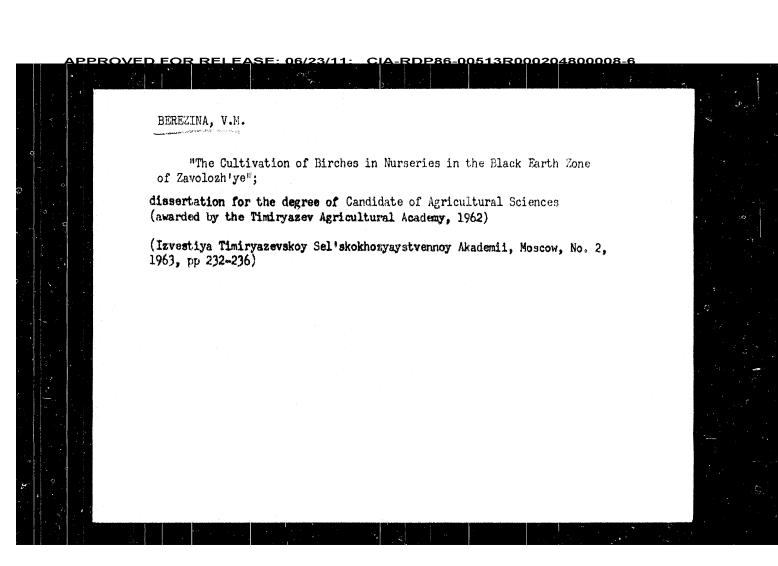
TITLE: Experimental determination of the density of the intermediate layer from gravimetric data

SOURCE: USSR. Glavnoye upravleniya geologii i okhrany* nedr. Geofizicheskaya razvedka, no. 13, 1963, 81-86

TOPIC TAGS: gravimetry, density determination, density correction factor, density distribution, geophysical prospecting

ABSTRACT: A method based on the use of gravity data is proposed to replace densitometer determinations used to calculate the density of a stratum above a gravity datum plane. Formulas developed for this method are based on the principle of averaging gravity values by dividing the topographic profile above the datum plane into convenient segments and then obtaining the overall average result for the entire profile, introducing topographic corrections when necessary. For linear gravity changes on the reference plane go = go + ax, the formula is

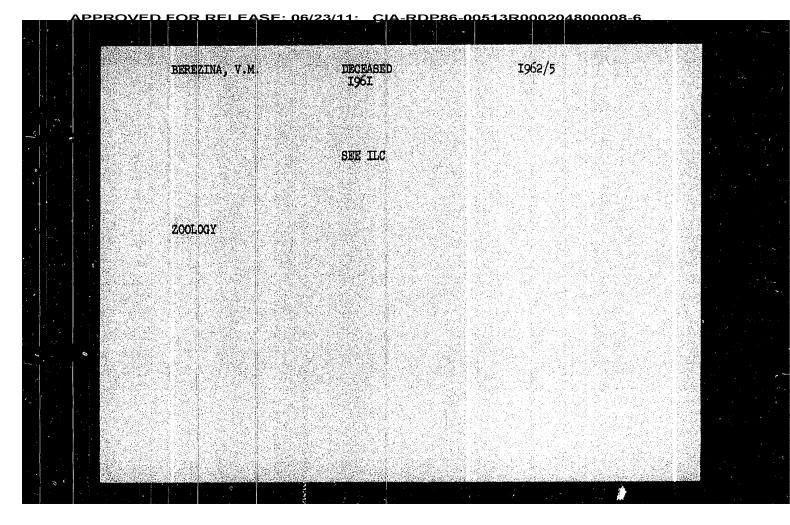
Card 1/4

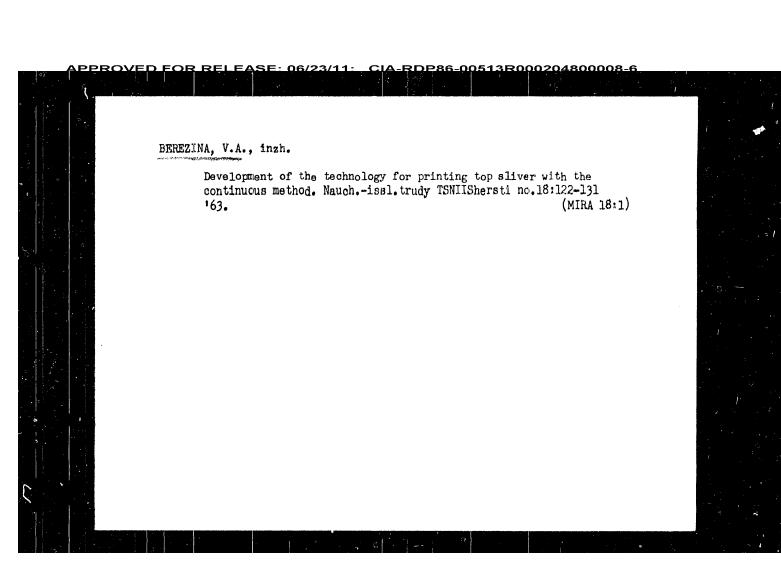


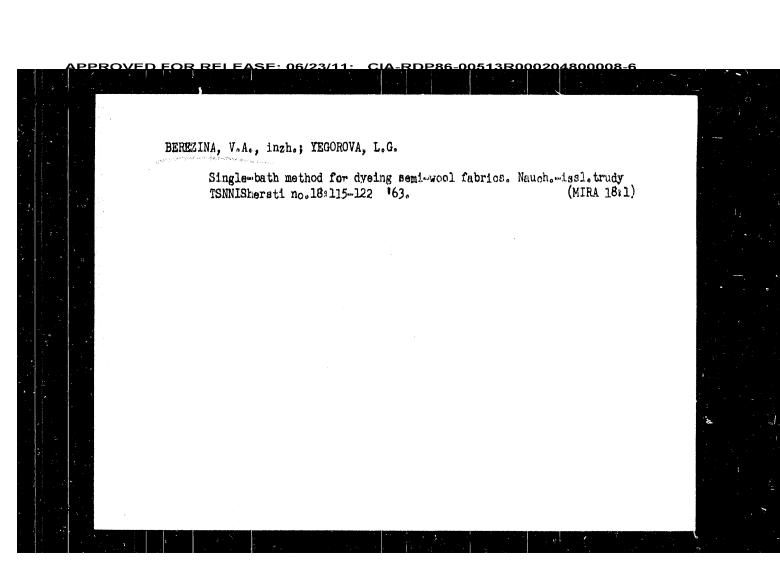
BEREZINA, V. M., Cand. Agri. Sci. (diss) "Growing of Birch in

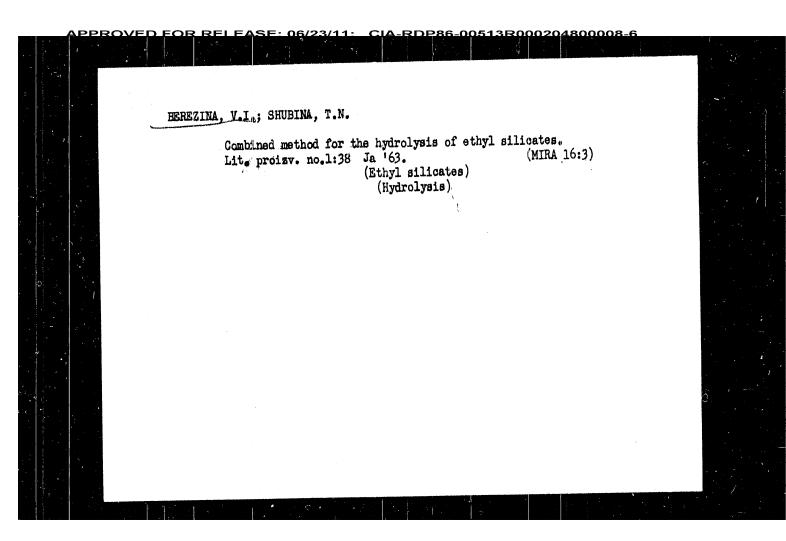
Nurseries of Chernozem Zone of Trans-Volga (Grenburg Oblast),"

Moscow, 1961, 16 pp. (Moscow Agri. Acad.) 200 copies (KL Supp 12-61, 279).









SIDNEVA, K.M., nauchnyy sotrudnik, kand.tekhn.nauk; BOYNO-RODZEVICH, V.P., nauchnyy sotrudnik, inzh.; SMANOVSKAYA, Ye.L., nauchnyy sotrudnik, inzh.; BEREZINA, V.A., starshiy nauchnyy sotrudnik

Wool dyeing with vat dyes in weakly-alkaline baths. Tekst.prom. 25 no.lli61-64 N '65. (MIRA 18:12)

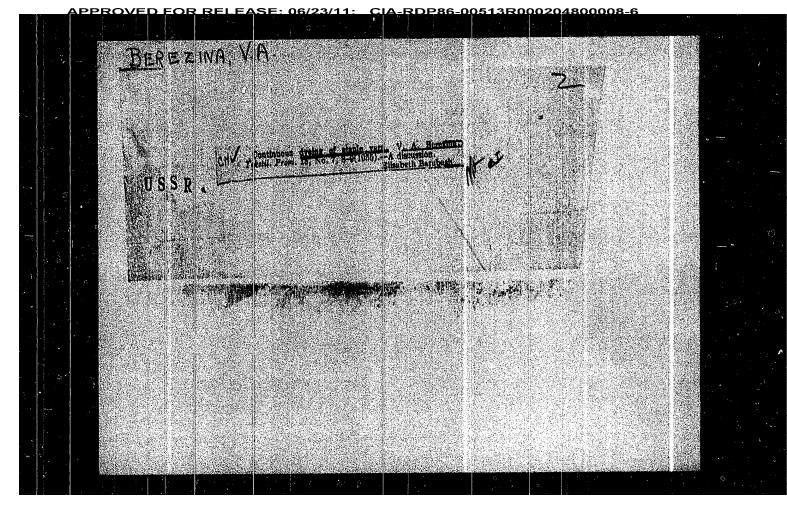
1. Mauchno-issledovatel'skiy institut organicheskih poluproduktov i krasitely (for Sidneva, Boyno-Rodzevich, Simanovskaya).
2. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti (for Berezina).

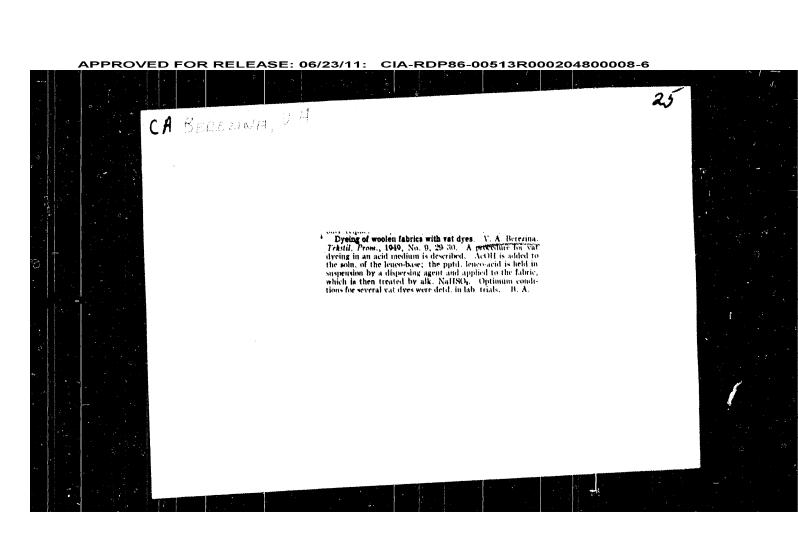
BEREZINA, V.A., inzh.

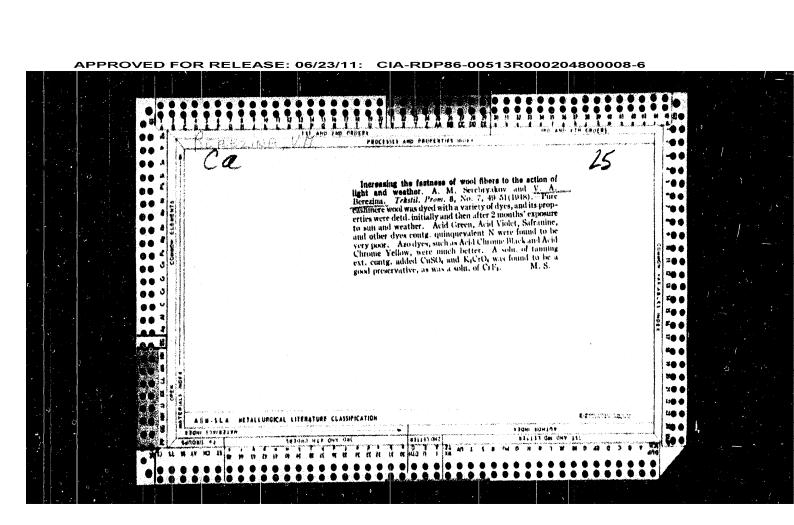
Use of vat dyes for dyeing wool and viscose fibers. Nauch.issl. trudy ISNIIShersti no.16:110-130 161.

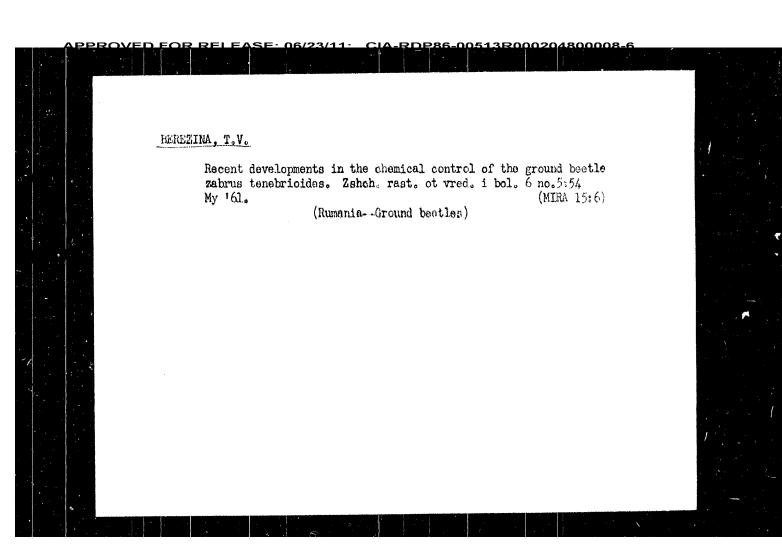
Development of formulab and technology for the printing of wool and someon overfit and worker ribbons.

130-1/6
(MIRA 16:11)









L: 20614-66
ACC NR: AP6009809
stresses and by full annealing of all welds. Orig. art. has: 6 figures and 2 tables.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 002/ ATD PRESS: 4224/

L 20614-66 RWT(=)/RWP(=)/RWP(=)//RWP(-)/RWP(-)/RWP

L 20614-66 EWT(=)/EWP(+)/T/EWP(+)/EWP(+) JD/HM/HM

ACC NR. AP6009809 (V) SOURCE CODE: UR/0096/66/000/004/0014/0014

AUTHOR: Ratner, A. V. (Candidate of technical sciences); Berezina, T. G. (Engineer)

ORG: VII, Chelyabenergo (CHENERGO)

TITLE: Effect of the welding thermal cycle on the formation of cracks in the weld-adjacent zone during welding of austenitic steel pipelines

SOURCE: Teploenergetika, no. 4, 1966, 14-17

TOPIC TAGS: austenitic steel, steel pipeline, pipeline welding, pipeline weld, weld cracking

ABSTRACT: During the welding of austenitic steel pipelines sharp temperature gradients and rapid heating and cooling are observed in the weld-adjacent zone, 5—6 mm wide. In a payt of this zone the temperature reaches 1300C, a temperature at which some segregated inclusions begin to melt. This phenomenon is the main cause of ring-shaped cracks beserved in welds of austenitic-steel pipelines. Electroslagmelted austenitic steels have a uniform distribution of alloying elements and are less susceptible to segregation than conventionally melted steels. Therefore, welded pipelines made of electroslag-melted-steel pipes are more reliable than those made of conventionally melted steel pipes. The reliability of the latter pipelines can be improved by reducing the sharp temperature gradients and minimizing welding

Card 1/2

UDC: 621.643.411.4

RDP86-00513R000204800008-6 BFREZINA, P.G., inch. Scale formation on superheater gipes of boilers with increased and superciritical steam parameters. Flok, std 36 no.4 20-23 Ap 165. (MIRA 18:5)

BALASHOV, Yu.V., inzh.; NAKH. LOV, V.A., inzh.; BEREZINA, T.G., inzh. Steampipe damage resulting from drainage system defects. Flek. str. 35 no.6:81-82 Je '64. (MIRA 18:1) ACCESSION NR: AP4041174

SUBMITTED; 00 ATD PRESS: 3066 ENCL: 00

SUB CODE: HM, IE HO REF SOV: 005 OTHER: 001

APPROVED FOR RELEASE: 06/23/11; CIA-RDP86-00513R000204800008-6

ACCESSION NR: AP4041174

have a definite level of elastic deformations ($\varepsilon = 1.5-2.5\cdot10^{-4}$). The deformations correspond to conditional stresses of $30-50~\text{Mn/m}^2$ in the linearly stressed condition and are completely removed during subsequent operation. The control-type welded joints have a deformation level significantly lower than that of welds made directly on the steam pipeline. A sharp peak of tensile deformations (c reaching $14.0 \cdot 10^{-4}$, or a conditional stress of up to 280 $\mathrm{Mn/m^2}$) was detected in the weld-affected zone at a distance of 2-6 mm from the fusion line. Compression deformations of the same magnitude predominate in the immediate vicinity of the fusion line. Operation of the steam pipeline at 565C for 12,000 hr reduced the peak stresses to 190 Mn/m^2 , although they were completely eliminated at a distance of 10 mm from the weld. Hence, these residual stresses, combined with those originating in the steam pipeline during operation, can play a substantial part in local failures of austenitic steam pipelines. Orig. art. has: 4 figures, 2 tables, and 3 formulas.

ASSOCIATION: VTI; Chelyabenergo

Card 12/3

ACCESSION NR: AP4041174 5/0096/64/000/007/0060/0063 AUTHOR: Ratner, A. V. (Candidate of technical sciences); Berezina, T. G. (Engineer) TITLE: Residual stresses in welded joints of austenitic steam SOURCE: Taploenergetika, no. 7, 1964, 60-63 TOPIC TAGS: stainless steel steam pipeline, 1Kh18N12T steel steam pipeline, AISI321 steel, steam pipeline weld, weld induced pipeline deformation, steam pipeline cracking ABSTRACT: The magnitude and distribution of residual deformation along the axis of welded pipeline with 128-mm diameter and 28-mm wall thickness made from austenitic stainless 1Kh18N12T [AISI321] steel have been investigated. Welded joints were cut out from an operating steam pipeline immediately after welding and after 12,000 hrs of operation; the latter joint was cut out because of the appearance of a circumferential crack, 80 mm long. The tests showed that, beyond the weld-affected zone, all fresh-welded joints

S/091/60/000/011/001/002 A163/A026

Damages on Pipelines of High and Superhigh-Parameter Boilers

Examinations were conducted by the ultrasound flaw-detection method on seams of steam pipes made from 15×M (15KhM) and 12 MX (12MKh) steel. Engineers detected 2 to 15-nm deep cracks in the welded seams. A number of defects resulted also from contact welding. To prevent improper welding of pipes the authors suggest the following: to control the quality of pipes turned out, especially that of austenite ones; modernize the welding equipment to secure high-quality contact welding, and to use the magnetographic crack detection method for discovering flaws in the zone of contact welding; apply a system of marking pipes meter by meter; and to control welded seams in new and old steam pipes by the ultrasound - detection method. There are 4 photographs.

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

S/091/60/000/011/001/002 A163/A026

Damages on Pipelines of High and Superhigh-Parameter Boilers

ling may also be found on pipes made of perlite steel. The shield pipe on the NK -10 (PK-10) boiler at the Yuzhnoural skaya GRES (Southern Urals State District Power Plant), having been in operation for 33,000 hours, suddenly burst. Widespread defects on thin-wall heating-surface pipes, especially on economizer ones, are caused by the formation of a zone of burning or decarbonization during the process of contact welding at a distance of 15 to 25 mm from the seam. As a rule, this results in the formation of a Widmanstaetten structure in the burnt zone. The exterior of such a honeycomb at a distance of 20 mm from the contact welding, and the microstructure of the honeycomb zone are shown. Carbon pipes with a diameter of 38×4.5 mm may be in operation for 10,000 to 25,000 hours at $T = 510^{\circ}C$ and p = 110 atm. Investigations carried out revealed that the diameter of such a pipe increases remarkably. An effective method of discovering cracks in welded seams of pipes made from perlite steel is the ultrasound flaw detection. Color crack detection, however, is most suitable for discovering cracks in austenite steel pipes. In most cases, cracks are caused by defective welds, caused by the use of low-quality electrodes, welding of non-heated metal, impeded shrinkage of the built-up metal, and additional stress during the thermal treatment.

Card 2/3

S/091/60/000/011/001/002 A163/A026

AUTHORS: Berezina, T.G. and Gonchar, M.I., Engineers

TITLE: Damages on Pipelines of High and Superhigh-Parameter Boilers

PERIODICAL: Energetik, 1960, No. 11, pp. 9-11

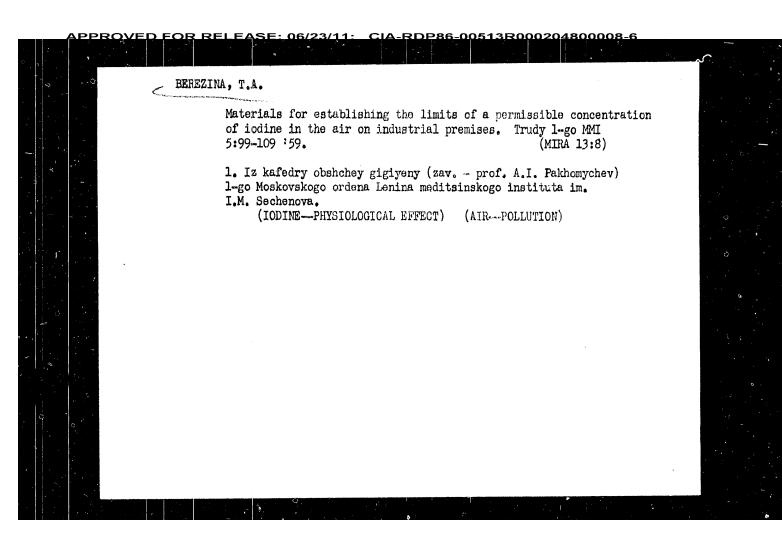
High and superhigh-pressure pipelines are frequently defective due to imperfect production technology. Such defects usually occur during the first 1,000 to 3,000 service hours of the boilers. They may result from poor rolling, overheating, damaging of carbon pipes used instead of alloyed ones, and defects during the welding process. Damages on superhigh-parameter pipelines, caused by defective welding, show up during the first 500 to 1,000 service hours. A honeycomb in a pipe of the second-step steam superheater on a continuously-operating coil boiler is shown. The pipe was made of 1×18H12T (1Kh18N12T) steel. The formation speed of such honeycombs may be quite different. An analogous honeycomb came about in the austenite steam-superheating pipe after 3,000 service hours due to internal lamination. Other damages on austenite pipes, especially on steam pipes with diameters of 219 x 30 mm and 194 x 28 mm, resulting from defective production technology and attaining a depth of 1.5 mm, are caused by surface cracking. These crackings may become annular honeycombs. Defects caused by wrong rol-card 1/3

BEREZINA, T.A., assistent; OOLIKOV, V.Ya., assistent

Methods for removing radiactive indine from sewage of medical institutions. Gig.i san. 25 no.2:12-14 F '60. (MIRA 13:6)

1. Is knfedry obshchey giglyeny I Moskovskogo ordena Lenina meditsinskogo institutia ineni I.M. Sechenova. (SEMAGS)

(IODINE radioactive)



PAKHOMYCHEV, A.I., prof.; CHEMKASOV, Ye.F., cots.; BEREZINA, T.A., assistent,; VISMNEVSKATA, Ye.F., assistent,; DANILEVSKATA, A.A., assistent,; SANKISYANTS, E.B., assistent,; KOZLOVA, T.A., assistent,; VOROB'TEVA, R.S., assistent,; URZAZEV, N.H., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Methods of teaching hygiene in medical and pediatric departments of institutes of medical reproductanila gigteny na leckwhom i pediatricheskom fakul'tetakh mediteinskikh institutov. Moskva, Gos. izd-vo med. lit-ry, 1958. 142 p. (MIRA 11:12)

(HYGIENE-STUDY AND TEACHING)

BERNZIMA, T.A., kend.med.nauk

Use of a colorimeter for determining the iodine content of the sir.
Gig. i san. 22 no.11:68-90 N '57.

1. Iz kefedry obshchey gigiyeny I Moskovskogo ordena Lenina meditsinskogo instituta ineni I.M.Sechenova.
(IODINE, determ.
in air, colorimetric determ. (Rus))
(AIR POLLUTION, determination,
iodine, colorimetric method (Rus))

BENNOTHA, W. A.

Dissertation: **Data on the Limited dynamic Standardization of the leavison Parmissible Concentration of Iodia in the Atmosphere of Workfare notes. **Cont test 201, Atms 20 con Order of Lenin Medical Inst. 26 Acr 52. (Tacheramen Bacters, access, 15 Acr 54)

So: Sam 263, 19 Oct 1954

EFFEZINA, T. A.

36328. BAFEZINA, T. A. I NOVIKOV, V. A. -- Vlivaniye intensiVnosti sveta na kauchukonosnost'i urozhay kokaegyza.

1948, o. 7-79 -- Biblio. r: 18 nazv.

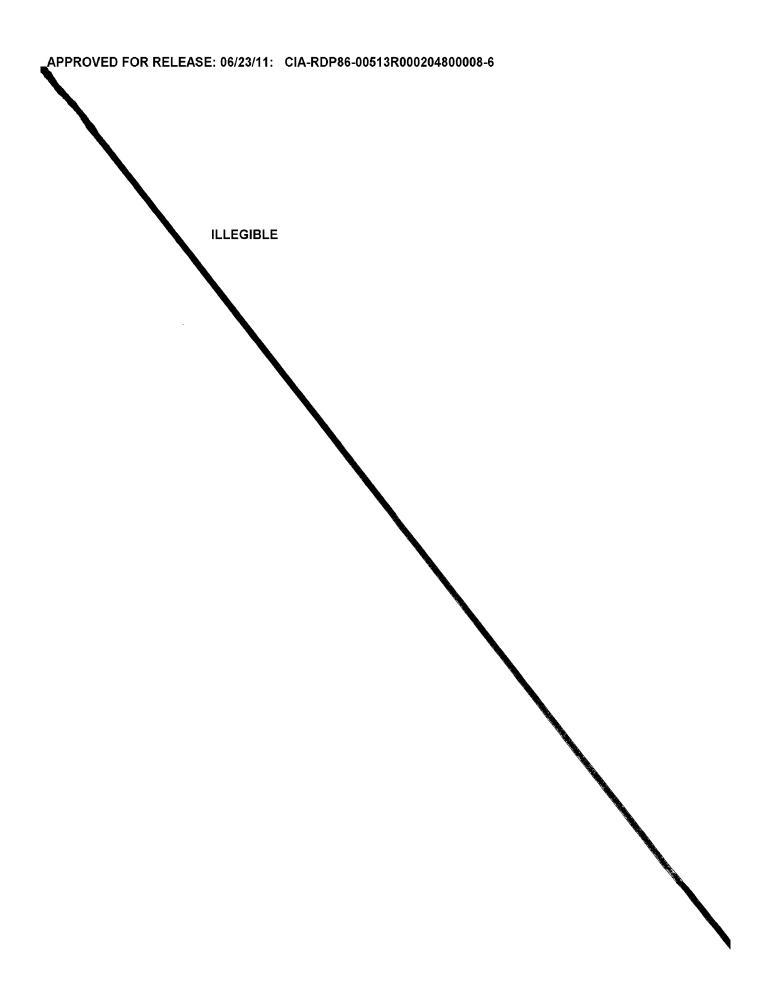
SO: Letopis' Zhurnal' nykh Statey, No. 49, 1949

Bulltul uttmeeuttooma Chema ha Kay yektootoomb u y poshau Kok-Carusa

9. Muene y lightinteneily on the nutberd aring yegital y kok saglyz

(Jarayaeum kok-sagly, a subter bearing that)

YUDIN, V.I.; TARTAKOVSKAYA, R.Z.; KRUSHCHANSKAYA, D.Z.; FEDORISHCHEV, T.I.; RYABININ, N.A.; KALGANOV, M.N.; Prinimala uchastiye BEREZINA, S.S. Production of pine tar for the needs of the rubber industry based on the utilization of waste resins from the Verkhnyaya Siniachikha Wood Chemical Combine. Kauch i rez. 21 no.8:49-51 Ag '62. (MIRA 16:5) 1. Sverdlovskiy zavod rezino-tekhnicheskikh izdeliy i Sverdlovskiy nauchno-issledovatel skiy institut pererabetki drevesiny (for all except Berezina). (Verkhnyaya Seniachikha--Wood-using industries--By-products) (Wood tar)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

ACC NR: AP6036116

deposits on brass, after different preliminary treatments. A further curve gives the dependence of the amount of hydrogen adsorbed on the surface of the gold coating and the yield of metal with respect to the current, as a function of the current density. In general, the results of the experiments show that the structure and the properties of gold coatings depend on the state of the base metal. Hydrogen, adsorbed by the base metal, governs the process of electrodeposition of the metal. "The authors express their thanks to G. S. Vozdvizhenskiy for his discussion of the work." Orig. art. has: 6 figures.

SUB CODE: 07, 11/ SUBM DATE: 02Mar66/ ORIG REF: 003/ OTH REF: 001

Card 2/2

PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

A.CC NR: AP6036116

SOURCE CODE: UR/0365/66/002/006/0732/0736

NUTHOR: Berezina, S. I.; Gorbachuk, G. A.

ORG: AN UkrSSR, Institute of Organic and Physical Chemistry im. A. Ye. Arbuzov (AN UkrSSR, Institut organicheskoy i fizicheskoy khimii)

TITLE: Effect of cathode hydrogen on the structure and properties of galvanic gold coatings

SOURCE: Zashchita metallov. v. 2, no. 6, 1966, 732-736

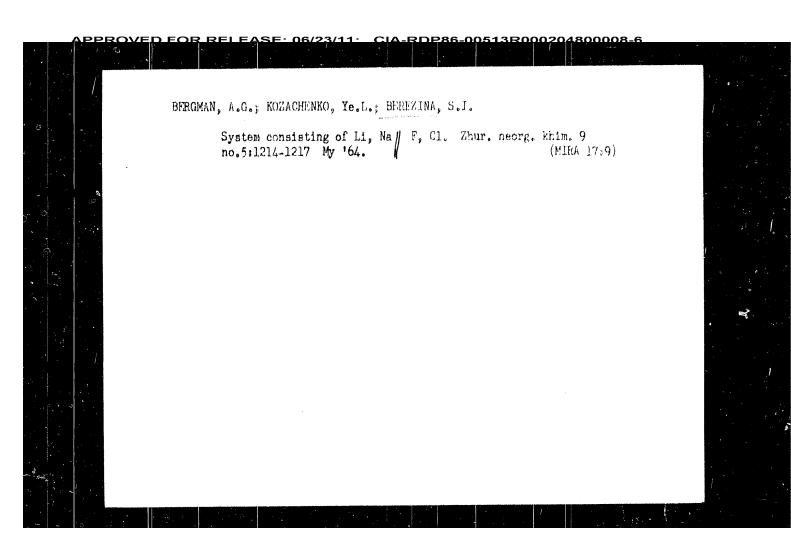
TOPIC TAGS: metal plating, gold, hydrogen

ABSTRACT: The base used was platinum and Type I-59 brass, in the form of plates 10 x 40 mm in size. Absorption of hydrogen was studied by measurements of the polarization capacity and by oscillographic curves of the anode charge. The amount of electrochemically active hydrogen in the deposit was determined from the curves for the anode charge. The structure of the gold coatings was studied by electron microscope and electronographic methods. The microhardness of the deposits was determined on a PMT-3 instrument. The composition of the solutions used for gold plating was as follows (grams/liter): I-- Au(metal)-4, KCN(free)-16, Na₃PO₄-1; II--Au(metal)-4, KCU(free)-16, Na₃PO₄-1, Ni(metal)-5. The electrolytic cell was thermostatted. Based on the experimental results, a figure shows electron microscope photos of the gold

Card 1/2

UDC: 621.357.7

HEREZINA, S.I.; GORBACHUK, G.A.; DEZIDER'YEV, G.P. [deceased] Hydrogen adsorption on a nickel cathode, Elektrokhimiia 1 no.6; 719-723 Je 165. (MIRA 18:7) 1. Khimicheskiy institut AN SSSR.



DELIDER'YEV, G.P.; BEREZINA, S.I.; GORBACHUK, G.A. (Kazan') Adsorption of hydrogen on a platinum cathode. Zhur. fiz. khim. 37 no.4:856-861 Ap *63. (MIRA 17:7) 1. Kazanskiy khimicheskiy institut AN SSSR.

HEREZINA, S.I.; HERGMAN, A.G.; BAKUMSKAYA, Ye.L.

Ternary reciprocal system consisting of fluorides and chlorides of lithium and potassium. Zhur.neorg.khlm. 8 no.9;2140-2143 S *63.

Stable cross sections of the quaternary reciprocal system consisting of fluorides and chlorides of lithium, sodium, and potassium. 2144-2147 (MIRA 16:10)

DEZIDER'YEV, G.P.; BEREZINA, S.I.; GORBACHUK, G.A. Formation of an oxide layer in the course of the electrolytic polishing of copper. Izv.Kazan.fil. AN SSSR. Ser.khim.nauk no.6:155-162 '61. (MIR (MIRA 16:5) (Copper-Finishing) (Electrolytic polishing) (Metalic oxides)

DEZIDER'YEV, G.P.; BEREZINA, S.I. Polarization capacitance of a platinum cathode in a maximum permissible diffusion current. Izv. Kazan.fil. AN SSSR. Ser.khim.nauk no.6:150-154 '61. (M (Electrodes, Platinum) (Polarization (Electricity)) (MIRA 16:5)

67895

The Diffusion Limiting Current on to a Rotating Disk Electrode in Cathodic Hydrogen Separation

S/020/60/130/06/025/059 B004/B007

the square root of the number of revolutions (Fig 2). At high concentrations the disturbing effect of the intermingling in the electrolyte of the hydrogen bubbles manifests itself. The straight lines intersect the ordinate above the points which correspond to the limiting current in the case of the electrode being at rest (Fig 3). For this case the authors derive an equation for concentration-polarization. The authors refer to V. G. Levich (Ref 3) and B. N. Kabanov (Ref 4). There are 3 figures and 5 Soviet references.

ASSOCIATION: Khimicheskiy institut Kazanskogo filiala Akademii nauk SSSR Institute of Chemistry of the Kazan' Branch of the Academy of Sciences, USSR)

PRESENTED:

November 4, 1959 by A. N. Frumkin, Academician

SUBMITTED:

October 22, 1959

Card 3/3

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

67895

The Diffusion Limiting Current on to a Rotating Disk Electrode in Cathodic Hydrogen Separation

S/020/60/130/06/025/059 B004/B007

with by the authors, viz. gaseous separation of hydrogen, electrolyte circulation was influenced by two factors: 1) Rotation of the platinum disk electrode (1000 - 22000 r.p.m.), and 2) intermixture of the electrolyte by the gas bubbles. The authors intended to find out the manner in which these two factors act. They determined the potential of the electrode by means of a capacity circuit, which was seitched on 10° sec after the polarization current had been switched off. Whereas in a diluted solution (0.0005 - 0.004 N) and in the case of a small number of revolutions of the electrode the limiting current may be determined directly from the polarization curve, disturbances caused by turbulent gas separation and heating of the electrode occur at high numbers of revolution and concentrations (0.05 N). For this case the authors give an equation for the purpose of determining the limiting current on the basis of the ion concentration determining the potential. Figure 1 shows that, with an increase in the number of electrode revolutions, a linear correlation between concentration and density of the limiting current occurs. At low concentrations there is also a linear correlation between current density and

Card 2/3

67895

5(4) 5.4600

\$/020/60/130/06/025/059

AUTHORS:

Dezider'yev, G. P., Berezina, S. I. B004/B007

TITLE:

The Diffusion Limiting Current on to a Rotating Disk Electrode

in Cathodic Hydrogen Separation

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 6, pp 1270 - 1272

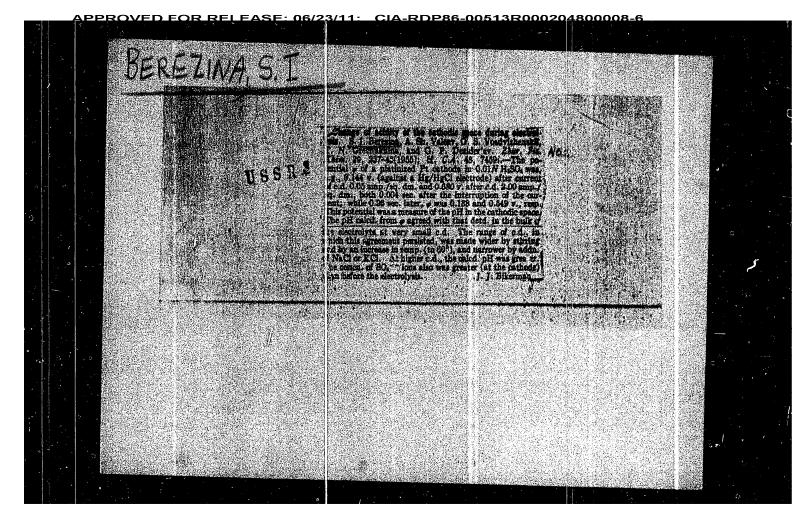
(USSR)

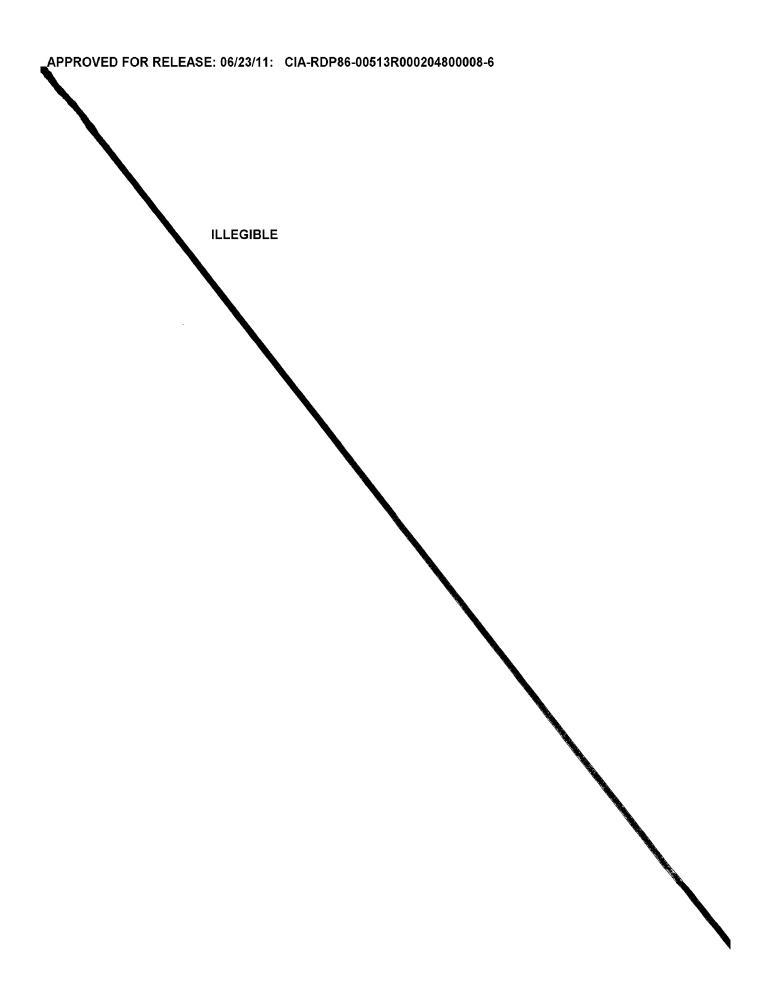
ABSTRACT:

In reference 1 the authors showed that the maximum current density in the cathodic separation of hydrogen on platinum or nickel electrodes from a sulphuric acid solution is characterized by the fact that the discharge reaction H° + e -> H is followed by the reaction $H_2O + e \longrightarrow OH' + H$ in the alkalized μ layer of the electrolyte adjoining the cathode. This alkalization occurs by the accumulation of impurity cations, the concentration of which may be calculated according to an equation by A. N. Framkin (Ref 2) and which, according to the experimental data obtained by the authors, amounts to about

 10^{-8} - 10^{-9} n. The concentration drop of the ions determining the potential in the boundary film at the electrode may be decreased by circulation of the electrolyte. In the case dealt

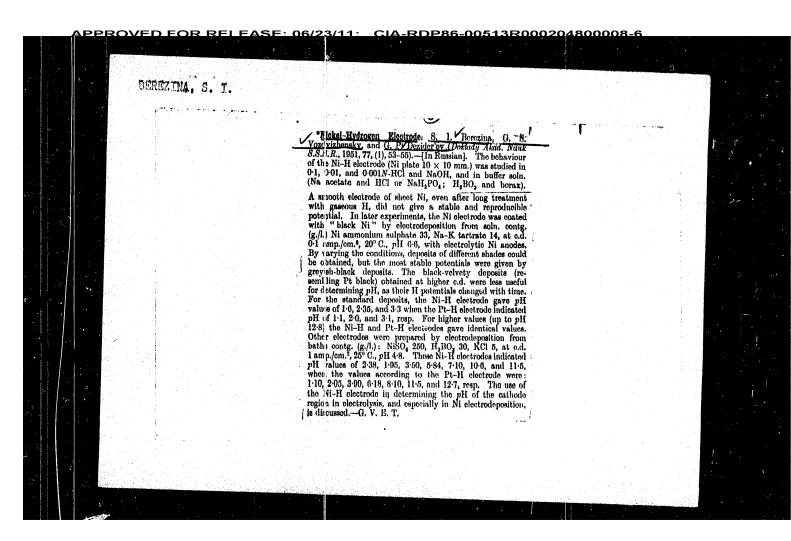
Card 1/3





1. BEREZINA, S.I.: VOZDVIZHENSKIY, G.S.: DEZIDER'YEV, G.P.
2. USSR (600)
4. Electrodes
7. Mickel-hydrogen electrode and some of its uses.
Zhur.prikl.khim. 25 No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

BEREZINA, S. I.

PA 190T27

USSR/Chemistry - Electrolytic Deposition of Metals

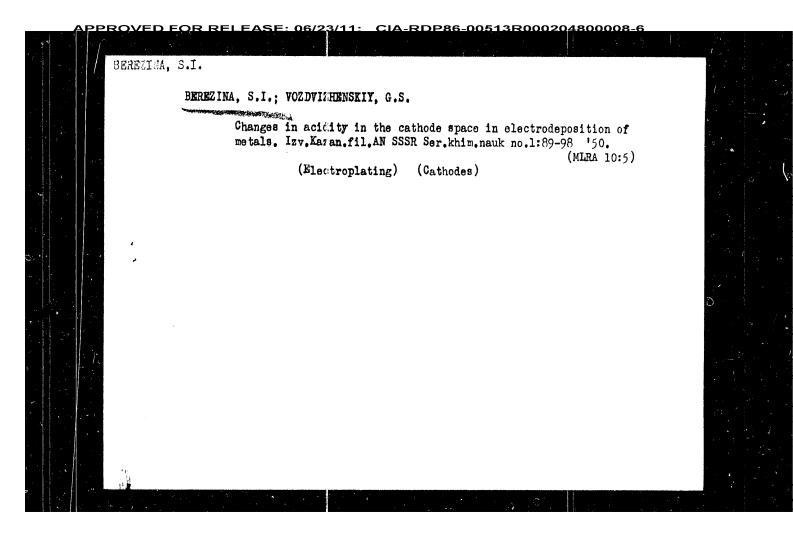
Aug 51

"Problem of the Variation of Acidity in the Cathodic Space During the Electrolytic Deposition of Metals," S. I. Berezina, G. S. Vozdvizhenskiy

"Zhur Prik Khim" Vol XXIV, No 8, pp 832-839

Describes method for detn of pH in space surrounding Pt and Ni cathode in case of electrolysis of $\rm H_2SO_4$ soln and electrolytic deposition of Ni from NiSO₄ soln. These cathodes, since they adsorb H, serve also as H electrodes, thus permitting to det $^{\rm PH}$, which is high at their surfaces. Method is applicable to some processes of great practical value.

190127



GUDIN, N.V.; AKHMETOV, N.S.; BEREZINA, S.I.; TROITSKAYA, A.D.

Gennadii Serafimovich Vozdvizhenskii, 1905-; on his 60th
birthday. Zashch.met. 1 no.6:729-730 N-D *165.

(MIRA 18:11)

LOSIKOV, B.V.; FAT'YANOV, A.D.; ALEKSANDROVA, L.A.; GOLOVISTIKOV, I.V.; BEREZINA, R.M. The the state of t Lubricants for gas-turbine systems. Khim. i tekh. topl. i masel 9 no.3258-62 Mr.64 (MIRA 1727)

LOSIKOV, B.V.; FAT'YANOV, A.D.; ALEKSANDROVA, L.A.; BEREZINA, R.M. Separate quantitative determination of SO, and SO, in the exhaust gases of engines. Knim. 1 tehb. topic 1 masel 9 no.62 44-47 Je*64 (MIRA 2007) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

ACCESSION NR: AP4017575

tricresyl phosphates (sediment reduced from 0.9 to 0.1%). It was further found that the addition of 1% sovol (pentachlorodiphenyl), a chemically stable and fully inert compound, raises the anti-wear (antifriction) properties of the oil to the level of the MK-22 oil (critical load 45 and 50 kg, respectively). The addition of more than 2% sovol does not improve the anti-wear property. Both additives are compatible. Laboratory tests were verified by an actual turbine run. Oil for gas turbines with ionol and sovol additives is at present manufactured according to the GOST 10289-62 standard. Orig. art. has: 4 figures and 4 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: CH, FL

NO REF SOV: 000

OTHER: 000

Card 2/2

ACCESSION NR: AP4017575

s/0065/64/000/003/0058/0062

AUTHOR: Losikov, B. V.; Fatiyanov, A. D.; Aleksandrova, L. A.; Golovistikov, I. V.; Berezina, R. M.

TITLE: Oils for gas turbine installations

SOURCE: Khimiya 1 tekhnol. topliv i masel, no. 3, 1964, 58-62

TOPIC TAGS: oil, oil antioxidant, antifriction additive, gas turbine oil, pionol, butyl phenol, pentachloro diphenyl, sovol

ABSTRACT: The purpose of the work was to find an all-purpose oil for the lubrication of both bearings and the reducer of a gas turbine. It should have low viscosity and good antioxidant and antifriction properties (no sediments formed). The choice was a transformer oil which was tested with a number of additives to provide the above properties. After extensive experiments, the authors found that the addition of ionol (4-methyl-2,6-di-tert-butylphenol) in a proportion of 0.2-0.7% increases oil stability at 170-2000 and gives incomparably better results as an antioxidant than tributyl-, triphenyl- and

Card 1/2

26522 5/065/61/000/008/007/009 The use of residual fuels in gas ... E194/E135

Use of ammonia at the rate of 0.2% weight is less effective. The bost results were obtained when the ammonia was injected before the combustion zone. A further advantage of using soluble compounds as against the suspensions sometimes used is that crosive wear of the turbine blades is reduced. A mechanism of action of the additives is suggested.

There are 6 figures, 1 table and 14 references: 5 English and 11 Soviet (including 3 translations from Proceedings of World Petroleum Congress VII). The four most recent English language

references read as follows: J. Inst. of Ref.1: A. Garner, P. Green, R. Harper, F. Pogg.

Potrol., Vol.39, 278, 1953.

Ref. 2: Proc. Inst. Eech. Eng., Vol.168, No.3, 1954.

Ref. 4: P. Lloid, R. Probert. Proc. Inst. Mach. Eng., Vol.163, 206,

Ref. 9: H. King, H. Putt. Trans. ASME, Vol. 78, No. 1, 185-196, 1956.

Card 4/4

26522

S/065/61/000/008/907/009

The use of residual fuels in gas E194/E135

increases appreciably only with fuel of 30 ppm vanadium or more. In general, at temperatures of 650-850 of the combustion products of fuels containing 14 - 35 parts per million vanadium increased the rate of corresion by a factor of h to 15, depending on the alloy used. The effect of additives was checked on fuel grade F-12 (no vanadium) and Fr-5 containing 27 parts per million vanadium and 9 parts per willion sodium using alloys E1-602, E1-481 and EI-417. The additives used were organic compounds of ragnesium that are readily soluble in heavy fuels but differing in the structure of the organic radical. The use of additive to the extent of 0.2% weight of fuel greatly reduced variadium corresion. It was shown that some organic magnest a compounds are much more effective than others. It is concluded that with 30 parts per million vanadium in the fuel the use of 0.016% magnesium in the form of soluble organic compounds practically completely prevents vanadium corrosion. Tests were also made with injection into the combustion chamber of ammonia to the extent of 0.5% by weight of the fuel. This also practically prevents vanadium corresion of the nickel and iron alloys within the temporature range tested.

Card 3/4

26522 5/065/61/000/008/007/009 The use of residual fuels in gas E194/E135

placed in the path of flow of the combustion products. was assessed by change in weight after the specimen had been exposed in the chamber and cleaned by electrolytic treatment in a solution of nodium carbonate and sodium hydroxide. It was found that corrosion is most intense in the first 2 - 3 hours and that it has reached a practically constant value at the end of 5 hours so that there was no need to continue the tests longer than this. The reference fuel was grade (p-12 (F-12) containing 130 parts per million sodium and ne vanadium. The vanadium content of the other fuels ranged from 16 to 35 parts per million vanadium. tests were made with nickel base alloys 348-435 (EI-435) and 34-602 (E1-602) which show little vanadium corrosion at temperatures below 050-700 °C; however, at higher temperatures the rate of corrosion rises rapidly. Alloys based on iron such as grade M1-481 (E1-481) are much more affected by vanadium than are the nickel alloys, particularly at the higher temperatures. The higher the vanadium content of the fuel, the lower the temperature at which the rising inflection of the corrosion curve occurs. At a gas temporature of 800-850 °C approciable corresion is observed with 10 ppm vanadium in the fuel, whereas at 630-680 CC corresion

Card 2/4

BEREZINA, RM.

26522 \$/065/61/000/008/007/009 £194/£135

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AUTHORS:

Losikov, B.V., Fat'yanov, A.D., Mikulin, Yu.V., Aleksandrova, L.A., Noznov, G.G., and Berezina, R.M.

The use of residual fuels in gas urbines TITLE:

PERIODICAL: Khimiya a tekhnologiya topliv i masel, 1961, No. 8, pp. 47-53

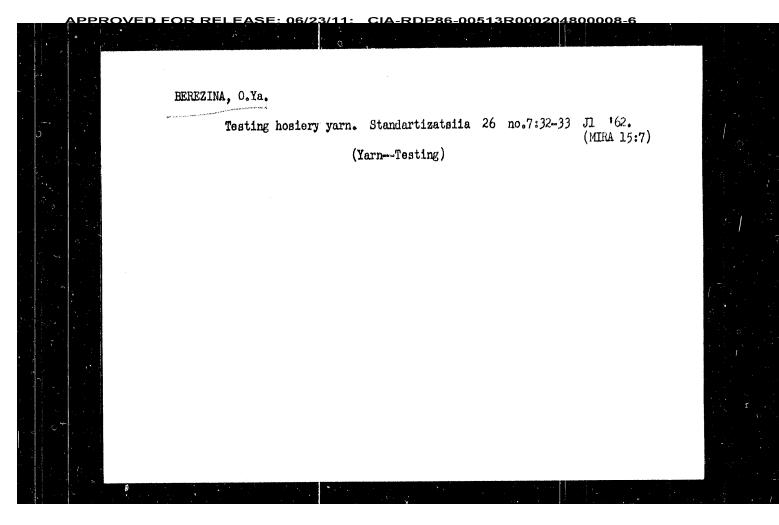
The mechanism of deposit formation and corrosion in gas turbines using residual fuels containing vanadium and sodium is discussed. Possible methods of avoiding the vanadium corresion include injection into the combustion chamber of aubstances which react with vanadium pentoxide and the more convenient use of fuel additives. The object of the present work was to check, on typical materials used in gas turbines, the corresivity of corresion products of high-sulphur marine heavy-fuel grade (0C -5) (Fs-5) and to study the use of additives to reduce this corrosion. The tests were made on a model combustion chamber which had previously been used for testing high sulphur distillate fuels but for the present work fuel heating equipment was provided. The test samples were made up as plates of 40 x 25 x 4 mm which were Card 1/4

KATSNEL'SON, R.A., kandidat meditsinskikh nauk; BEREZINA, P.F., kandidat meditsinskikh nauk Treatment of staphylococcal pyodermitis with anatoxin. Vest.ven. i derm.no.3:53 My-Je 156. (MLRA 9:9) 1. Iz kafedry mikrobiologii i kliniki kozhnykh i venericheskikh zabolevaniy Tashkentskogo gosudarstvennogo meditsinskogo instituta imeni V.M.Molotova. (SKIN--DISKASES) (TOXINS AND ANTITOXINS)

TRET'YAKOVA, N.Ya.; BEREZINA, O.Ya. (Moskva) Reviews. Shvein. prom. no.4:37 Jl-Ag 165. (MIRA 18:9) BFREZINA, O.Ya., kand. tekhn. nauk, starshiy nauchnyy setrudnik Statistical method of production control in cotton spinning. Tekst. prom. 25 no.4:25-27 Ap 185. (MIRA 18:5) 1. TSentral nyy nauchno issledovatel skiy institut khlopchatobumazhnoy promyshlennosti.

PEREZINA, O.Ya., starshiy osuchnyy actrubula; Shahrota, Ye.E., inch.; OWHECHINA, N.C., inch.; OWHECHINA, N.C., inch.; of the product on aprinter mechines. Tekst. pros. 24 no.13: 40-43 0 '64.

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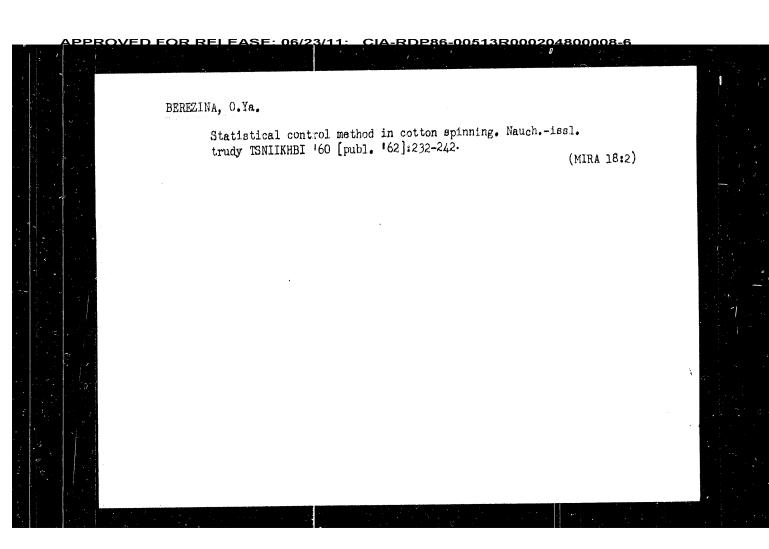


MARKOY, F.M., ingh.y-MEREZINA, 0.Ya. starshiy nauchnyy setrudnik, kand. tekhn.nauk

Statistical method of quality control in cotton spinning. Tekst. prom. 22 no.4:35-38 Ap 162.

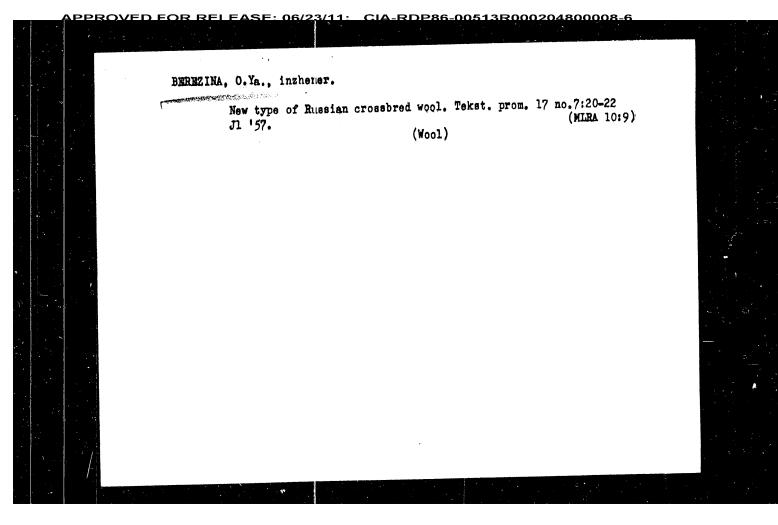
1. Zaveduyushchiy laboratoriyey Reutovskoy khlopkoprysail'noy fabriki (for Merkov). 2. Tsentral'nyy nauchno-isaledovatel'skiy institut khlopchatobusazhnoy promyshlemnesti (TSHIKHBI).

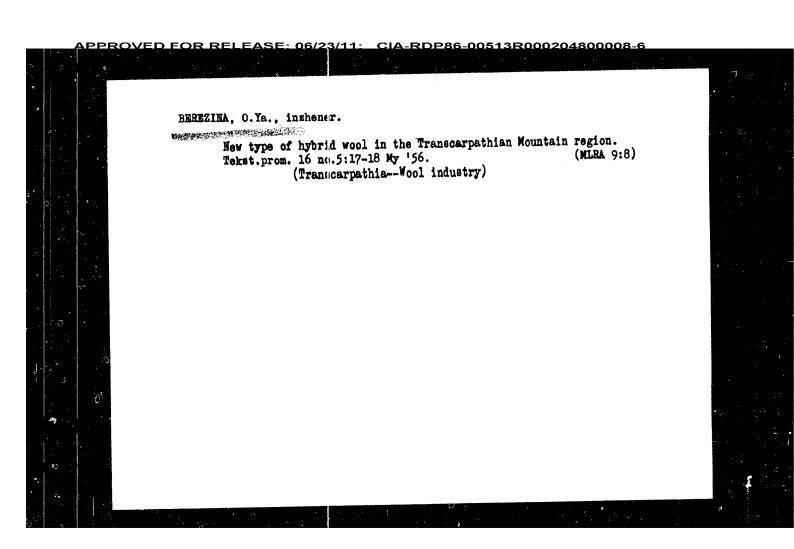
(Cotton manufacture—Quality control)



1 IVANOV, S.S., kand.tekhn.nauk; BEREZINA, O.Ya., kand.tekhn.nauk Development of unevenness norms for semiprocessed fibers and yarm. Tekst.prom. 21 no.2:57-59 Ja 141. (MIRA 14:3) (Textile fiber)—Standards) HEREZIMA, O. Ya.: Mestor Tech Sci (dies) -- "The dependence of the properties of finely combed wool year on its number and twict". Mescow, 1059. 21 pp (Min Higher Rduc USSR, Moseow Textile Inst), 150 conies (Mi, No 16, 1059, 109)

: 06/23/11: CIA-RDP86-00513R000204800008-6 BEREZINA, O.Ya. Rated properties of fine combed-wool yarn. Izv.vys.ucheb.sav.; tekh. tekst.prom. no.4:19-27 '58. (MIRA 11:11) 1. Moskovskiy tekstil'nyy institut.
(Woolen and worsted manufacture)





BEREZIHA, O.Ya., inshener.

Jew types of uniform wool from crossbred sheep, Tekst.prom.14
no.1:15-17 Ja '5+. (Wight 7:2)

(Wool)

BOCHAROV, A.F.; GOLMAN, Yu.P.; BEREZINA, O.N.; POKHTTONOV, YO.F. Morphological characteristics of the particles of herpes simplex virus. Vop. virus. 10 no.2:150-155 Mr-Ap *65. (MIRA 18:10) 1. Institut virusologii imeni D.I.Ivanovskogo AMN SSCR, Muskva.

UGOLEVA, N.A.; BEREZINA, O.N.; NOSACHEVA, A.D.; SOKOLOV, M.I.; PETERSON, O.P. Ribonucleic acid polymerase activity induced by NDV virus (M3 strain). Vop. virus. 10 no.3:347-349 My-Je 165. (MIRA 18:7) 1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

POPOVA, O.M.; BEREZINA, O.N. Reflect of previous X-ray irradiation on the susceptablicity of we to mice to infection by ornithosis virus serosal. Vop. virus, 9 research 216 Mr-Ap (64.) 216 Mr-Ap 164. 1. Institut viruselegii imeni Ivanevskoge AMN SSSR. Moskwa.

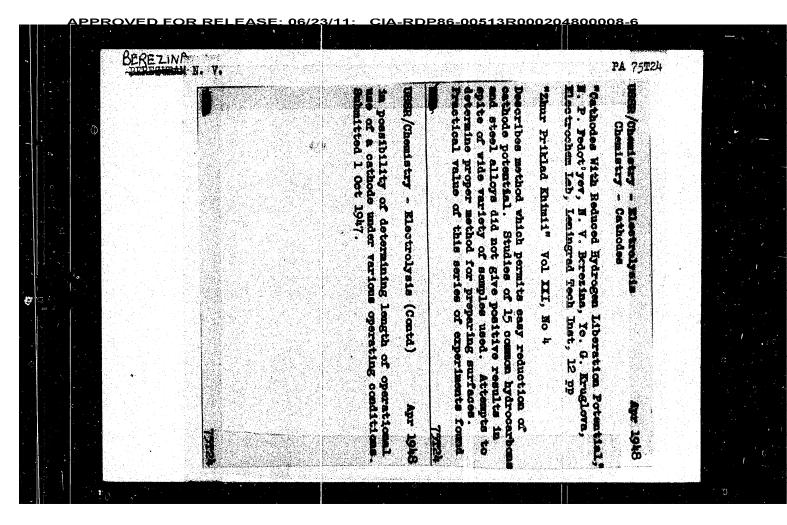
PETERSON, O.P.; BEREZINA, O.N.; KOZLOVA, I.A.; SKLYANSKAYA, Ye.I.; PETROV, R.V., red.; ZAKHAROCA, A.I., tekhn. red. [Influence of ionizing radiation on virus infections and on antiviral immunity] Vliianie ioniziruiushchego izlucheniia na virusnye infektsii i protivovirusnyi immunitet. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 165 p. (MIRA 14:9) (RADIATION—PHYSIOLOGICAL EFFECT) (VIRUS DISEASES) (IMMUNITY)

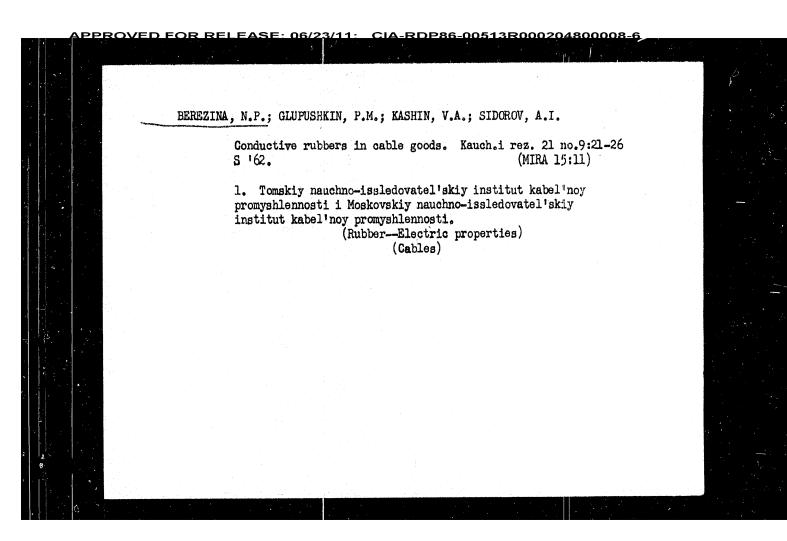
BEREZINA, O. N., Candidate Med Sci(diss) -- "The effect of protracted irradiation with small doses of X-rays on susceptibility to the grippe virus and the formation of anti-grippe immunity under experimental conditions". Moscow, 1959. 11 pp (Acad Med Sci USSR), 200 copies (KL, No 24, 1959, 148)

EEREZINA, O.; ZLOTNIKONA, L.; IEONOVA, A.; NOVITSKAYA, O.

Methodology of labor productivity analysis and planning by factors in the petroleum refining industry. Biul. nauch.
inform: trud i zer. plata 3 no. 11:2-10 '60.

(Potroleum industry-Labor productivity)





NEKRASOV, L.N.; BEREZINA, N.P.

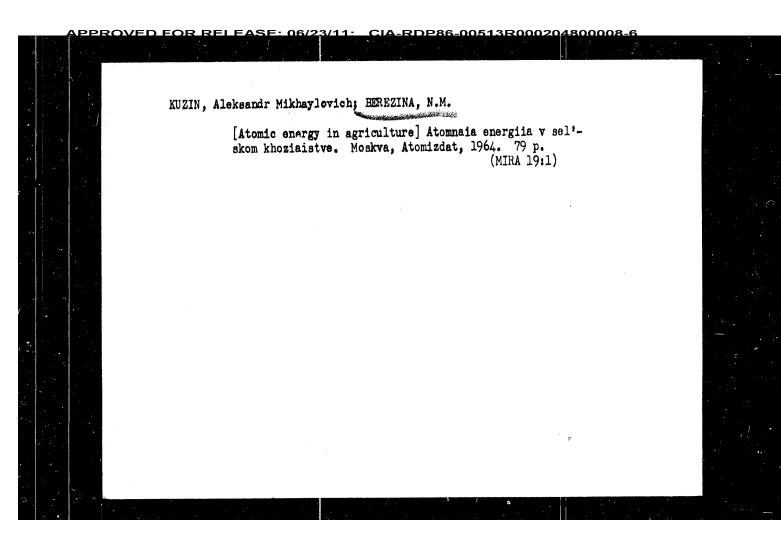
Use of a disk electrode with a ring in studying the electromeduction of copper. Dokl. AN SSER 142 no.44855-858 F '62.

(MRRA 15:2)

1. Moskovskiy gosudarstvennyy universitet im, M.V. Lomonosova, Predstavleno akademikom A.N. Frumkinym.

(Copper)

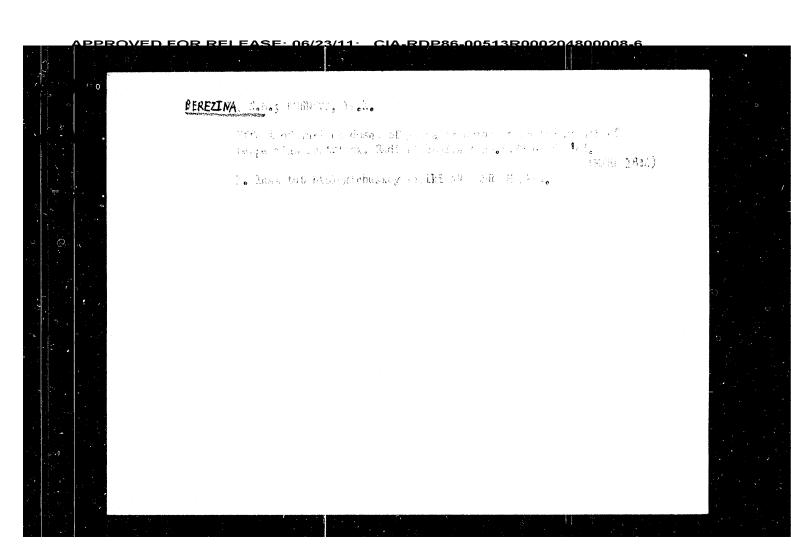
(Reduction, Electrolytic)



BENEZURA, Nies Mikhaylivas, ESZNI, Chapenda, FOSI-SA, V.V.;
red.

[Radiation of ferm crop seeds befor nowing] Preinsexture
oblocked semin sell-sackbeziststvennech rissemil. Steskva, Mestzdut, 1964. 210 p.

1. Chlos-kerrosamalent (M. 1886 (Fer Karla)).



KUZIN, A.M.; DUBONOSOV, T.S.; BEREZINA, N.M.; EIZA-ZADF, R.R.; TARKOV, S.N. Possibilities for utilization of lonizing radiations in hydroponics. Radiotiologiia 4 no.3:457-459 164. (EIRA 17:11) 1. Institut biologicheskoy (laiki AN ESSR, Moskva i Krasnodarskiy nauchno-isslecovatel'skiy sel'skokhosyaystvennyy instibut, gidroponicheskoye khozyaystvo.

EFFEZINA, N.M.; YAZYKOVA, V.A. [deceased]

Effect of icmizing radiations on peroxidase activity in corn seedlings grown from irradiated seeds. Radiobiologiia 3 no.2t 177-180 '65 (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

ERREZIDA, N.M.; SHCHIRE A, G.I.; DROZHZHINA, V.V.; RIZA-ZADE, R.R.;

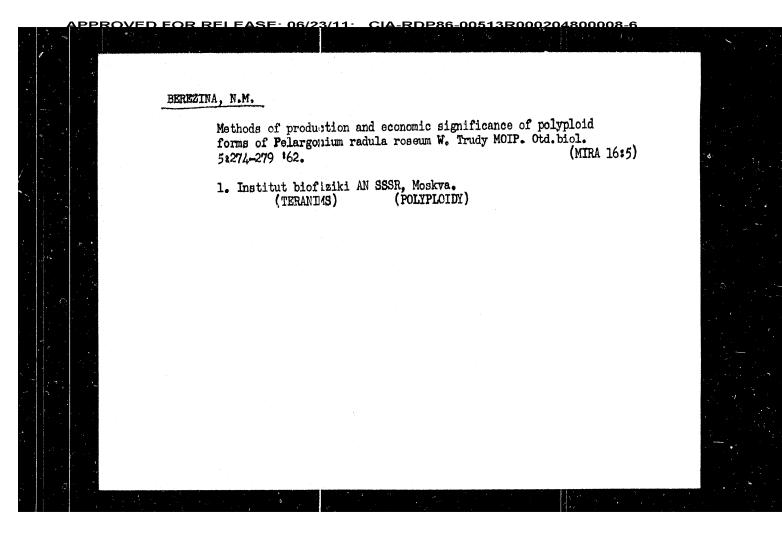
TERRASOVA, A.D.

Effect of &of gamma irradiation of tubers before planting on the yield and vitemin & content of potatose. Radiobiologiia 3 no.1:139-142 163.

1. Institut biclogicheskoy fiziki AN SSSR, Moskva.

(FLANTS, EFFECT OF GAMMA RAYS ON) (POTATOSS)

(ASCORBIC ACID)



S/205/62/002/006/020/021

Morphological changes ... E027/E410

irradiated potatoes, mint rhizomes and apple cuttings.
There are 6 figures and 3 tables.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva
(Institute of Biophysics AS USSR, Moscow)

SUBMITTED: July 18, 1962

PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

L3L88

S/205/62/002/006/020/021 E027/E410

,27 1220 AUTHORS:

262.0

Berezina, N.N., Ostapenko, V.I., Korneva, Ye.I.,

Riza-Zade, R.R.

TITLE:

Morphological changes in plants under the influence

of ionizing radiation

PERIODICAL: Radiobiologiya, v.2, no.6, 1962, 931-937

The production of multiple cobs was observed in maize plants grown from seeds irradiated with 500 r from a Cs137 source before sowing. Of 200 plants studied 25 (13%) had 1 cob; 91 (45%) had 2; 60 (30%) had 3; 18 (9%) had 4; whereas 90 (45%) of 200 control plants from unirradiated seeds had 1 cob and the The harvest from 6 plots sown remaining figures were all lower. with irradiated and control seeds showed that the experimental plants gave higher yields of stalks, cobs and husks. Increased branching occurred in buckwheat exposed to chronic gammairradiation in a total dose of 250r and there was a corresponding increase in the number of inflorescences. Branching could also be induced in hemp and jute, with corresponding increase in the Similar changes were seen in plants developing from harvest. Card 1/2

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					structure cause further che. The dose-dependence he development of the plant lead to branching, and also to development and finalist results in an increase.	inges in the rates of is a two-phase chan below a definite do a increases the num of its full inhibition	f the developmenter for many soos, and change there of regeners of Change in m	nt and of the meta pecies of plants. It s of the regular d ting organs, Incre	bolism of the plant tradiation causes as istribution of grow ascil doses cause in	celeration of the ing points which	,			
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Chronicle. Presowing ...

S/205/61/001/004/032/032 D298/D303

that irradiation of tubers in a dose of 250 r gave an ascorbic acid content of 33.7 mg%, as opposed to 24.8% in the control. Presowing irradiation of perennial grass seeds carried out by the Urals Branch, AS USSR, and the Vsesoyuznyy nauchno-issledovatel skiy institut udobreniy i agropochvovedeniya VASKhNIL (All-Union Scientific Research Institute of Fertilizers and Agropedology, VASKhNIL) gave an increase in the green mass yield at the first and subsequent mowings. The Institute of Biophysics, AS USSR, in conjunction with the Vsesoyuznyy nauchno-issledovatel skiy institut l'na (All-Union Scientific Research Institute of Flax) and the Institut yadernoy fiziki (Institute of Nuclear Physics) studied the presowing irradiation of textile crop seeds (flax and Indian hemp) and found that this method led to an increase in the yield and the quality of the fiber. There is 1 table.

Card 5/5

PPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000204800008-6

Chronicle. Presowing ...

S/205/61/001/004/032/032 D298/D303

14 - 22%. Irradiation of sprouting seeds gave an increase of up to 50%. The Institute of Biophysics, AS USSR, the Institute of Genetics, AS Azerbaydzhanskaya SSR, and L'vov University found that irradiation of cucumber seeds in doses of 300 - 500 r gave an increase of 15 - 30% in the cucumber yield (with irradiation of dry seeds) or up to 39% (irradiation of sprouting seeds). The results of presowing irradiation of melon and watermelom seeds carried out by the Institute of Genetics, AS Azerbaydzhanskaya SSR, are also reported. Irradiation of sprouting seeds of sugar beet at L'vov University gave a rise of 26 - 56% in the fruit yield. This was accompanied, however, by a drop in the sugar content of the roots. The Nauchno-issledovatel'skiy institut kartofel'nogo khozyaystva (Scientific Research Institute of Potato Farming), the Institute of Biophysics, AS USSR, and the Institute of Biology, AS Latviyskaya SSR, studied the presowing irradiation of different varieties of potato. Irradiation in doses of 100 - 500 r gave a rise of 8 - 44% in the tuber yield. Grechishnikov found that presowing irradiation of potato tubers in a dose of 500 r gave a vitamin C content of 19.1 mg%, as opposed to 13.4% in the control. The authors of the article found

Card 4/5